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PEY
OIPB
3.25-1/RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/684,554DATE: 10/19/2000
TIME: 15:08:53

ENTERED

Input Set : A:\875-024US1.txt.txt
Output Set : N:\CRF3\10192000\I684554.raw

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4 <110> APPLICANT: Engelhardt, John F.
5   Duan, Dongsheng
6   -Yan, Ziyang
8 <120> TITLE OF INVENTION: Adeno-associated virus vectors and uses thereof
10 <130> FILE REFERENCE: 875.024US1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/684,554
C--> 12 <141> CURRENT FILING DATE: 2000-10-06
12 <150> PRIOR APPLICATION NUMBER: US 60/158,209
13 <151> PRIOR FILING DATE: 1999-10-07
15 <160> NUMBER OF SEQ ID NOS: 13
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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20 <211> LENGTH: 20
21 <212> TYPE: DNA
22 <213> ORGANISM: Adeno-associated virus
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27 <210> SEQ ID NO: 2
28 <211> LENGTH: 19
29 <212> TYPE: DNA
30 <213> ORGANISM: Adeno-associated virus
32 <400> SEQUENCE: 2
33 gggcggagcc tatggaaaa
35 <210> SEQ ID NO: 3
36 <211> LENGTH: 505
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
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40 <223> OTHER INFORMATION: A consensus sequence
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44 ggcattgcaag ctgcaattca tcggtagata agtagcatgg cgggttaate attaaactaca
45 aggaaccctt agtgatggag ttggccactc cctctctgcg cgctcgtcgc ctcgctgagg
46 ccgggcgacc aaaggtcgcc cgacgcccgg gctttgcccg ggcggcctca gtgagcgagc
47 gagcgcgag ctgcgcgctc gctcgtcac tgaggccgcc cgggcaaagc ccgggcgtcg
48 ggcgaccttt ggtcgcccgg cctcagcgag cgagcgagcg cgcagagagg gagtggccaa
49 ctccatcact aggggttcct tgtagttaat gattaacccg ccatgctact tatctacagc
50 ttgcatgcat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag gccgcgttgc
51 tggcggtttt ccataggctc cgccc
53 <210> SEQ ID NO: 4
54 <211> LENGTH: 272
55 <212> TYPE: DNA
56 <213> ORGANISM: AAV circular intermediate, clone p81
58 <400> SEQUENCE: 4
59 gcattgcaagc ttagataag tagcatggcg ggtaaatcat taactacaag gaacccttag
60 tgatggagtt ggcactccc tctctgcgcg ctcgctcgct cactgaggcc ggcgggcaa
61 aggtcgcccg acgcccgggc ttgcccggg cgccctcagt gagcgagcga gcgcgcagag

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62 aggggagtggc caactccatc actagggggtt cctttagtatt aatgattaac ccgccatgct      240
63 acctatctac cgatgaattc gagcttgcat gc      272
65 <210> SEQ ID NO: 5
66 <211> LENGTH: 300
67 <212> TYPE: DNA
68 <213> ORGANISM: AAV circular intermediate, clone p79
70 <400> SEQUENCE: 5
71 gcatgcaagc ttagataaag tagcatggcg ggttaatcat taactacaag gaaccacctag      60
72 tgatggagtt ggcaactccc tctctgcgcg ctgcctcgct cactgaggcc gggcgcgcgcg      120
73 tcgctcgctc actgaggccg ggcgacccaa ggtcgcccgga gcccgggctt tgcccgggcg      180
74 gcctcagtgga gcgagcgcgcg gcgcagagag ggagtggcca actccatcac taggggttcc      240
75 ttgtagttaa tgattaaccc gccatgctac ttatctaccg atgaattcga gcttgcattg      300
77 <210> SEQ ID NO: 6
78 <211> LENGTH: 272
79 <212> TYPE: DNA
80 <213> ORGANISM: AAV circular intermediate, clone pl202
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83 gcatgcaagc ttagataaag tagcatggcg ggttaatcat taactacaag gaaccacctag      60
84 tgatggagtt ggcaactccc tctctgcgcg ctgcctcgct cactgaggcc gggcgacccaa      120
85 aggtcgcccg acgcccggcg ttgtctgcgc cgccctcagt ggcgcagcga gcgcgcagag      180
86 agggagtggc caactccatc actagggggtt cctttagtatt aatgattaac ccgccatgct      240
87 acctatctac cgatgaattc gagcttgcat gc      272
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 165
91 <212> TYPE: DNA
92 <213> ORGANISM: Unknown
94 <220> FEATURE:
95 <223> OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 5,478,745
97 <400> SEQUENCE: 7
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99 ccgggcgacc aaaggctgcc cgacgcccgg gctttgcccg ggcggcctca gtgagcgagc      120
100 gagcgcgagc agaggggagt gccaaactcca tcaactagggg ttccct      165
102 <210> SEQ ID NO: 8
103 <211> LENGTH: 282
104 <212> TYPE: DNA
105 <213> ORGANISM: rAAV circular intermediate, clone p79
107 <400> SEQUENCE: 8
108 ggcggggccat ttaccgtaag ttatgtggcg actgcaggca tgcaagctcg aattcatcgg      60
109 tagataagta gcatggcggg ttaatcattg cctacaaaaga gcccttagtg atggagtggg      120
110 ccaactccctc tcttcgcccga gcgcgcagag agggagtggc caactccctc actaggggtt      180
111 cctggcagtt aatgattaac ccgccatgct acttatctac agcttgcatg catgtgagca      240
112 aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt tg      282
114 <210> SEQ ID NO: 9
115 <211> LENGTH: 345
116 <212> TYPE: DNA
117 <213> ORGANISM: rAAV circular intermediate, clone p80
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120 ggccatttac cgtaagtatt gtaacgactg caggcatgca agctcgaatt catcggtaga      60
121 taagtagcat ggcgggttaa tcattaacta caaggaaacc ctagtgatgg agttggccac      120

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122 tccctctctg cgcgctcgct cgctcgctca ggccgggcca ccaaaggctg cccgacgccc 180
123 gcccggcctc agcgagcgag cgagcgcgca gagaggaggt ggccaactcc atcactaggg 240
124 gttccttgta gttaatgatt aaccggccat gctacttata tacagcttgc atgcatgtga 300
125 gcaaaaggcc agcaaaaggc caggaacctg aaaaaggccg cggttg 345
127 <210> SEQ ID NO: 10
128 <211> LENGTH: 276
129 <212> TYPE: DNA
130 <213> ORGANISM: rAAV circular intermediate, clone p81
132 <400> SEQUENCE: 10
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134 taagtagcat ggcgggttaa tcattgccta caaagagccc ctagtgatgg agcccgccct 120
135 caccgagcga gcgagcgcgc agagaggaggt tggccaactc catcactagg ggttccttgt 180
136 agttaatgat taaccggcca tgctacttat ctacagcttg catgcatgtg agcaaaaggc 240
137 cagcaaaagg ccaggaacctg taaaaggcc gcgttg 276
139 <210> SEQ ID NO: 11
140 <211> LENGTH: 316
141 <212> TYPE: DNA
142 <213> ORGANISM: rAAV circular intermediate, clone p86
144 <400> SEQUENCE: 11
145 ggccatttac cgtaagttat gtaacgactg caggcatgca agctcgaatt catcggtaga 60
146 taagtagcat ggcgggttaa tcattaacta caaggaaccc ctagtgatgg agtggccac 120
147 tccctctctg cgcgctcgct cgctcgctga ggccgccccg gcctcagcga gcgagcgagc 180
148 gcgagagag ggactggcca actccatcac taggggttcc ttgtagttaa tgattaaccc 240
149 gccatgctac ttatctacag cttgcatgca tgtgagcaaa aggccagcaa aaggccagga 300
150 accgtaaaaa ggccgc 316
152 <210> SEQ ID NO: 12
153 <211> LENGTH: 208
154 <212> TYPE: DNA
155 <213> ORGANISM: rAAV circular intermediate, clone p87
157 <400> SEQUENCE: 12
158 ggccatttac cgtaagttat gtaacgactg caggcatgca agctcgaatt catcggtaga 60
159 taagtagcat ggcgggttac tcattgccta caaagagccc ctagtgatgg aattggaatg 120
160 attcaccctc catgctactt atctacagct tgcattgcat tgagcaaaag gccagcaaaa 180
161 ggccagggaac cgtaaaagg ccgcgttg 208
163 <210> SEQ ID NO: 13
164 <211> LENGTH: 310
165 <212> TYPE: DNA
166 <213> ORGANISM: rAAV circular intermediate, clone p88
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169 gccatttacc gtaagttatg taacgactgc aggcattgcaa gctcgaattc atcggtatag 60
170 aagtagcatg gcgggttaat cattgcctac aaagagcccc tagtgatgga gttggccact 120
171 cctctctctg gcgctcgctc gctgggcccg gcctcagcga gcgagcgagc gcgagagag 180
172 ggagtggcca actccatcac taggggttcc ttgtagttaa tgattaaccc gccatgctac 240
173 ttatctacag cttgcatgca tgtgagcaaa aggccagcaa aaggccagga accgtaaaaa 300
174 ggccgcgttg 310

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VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:39 M:283 W: Missing Blank Line separator, <220> field identifier